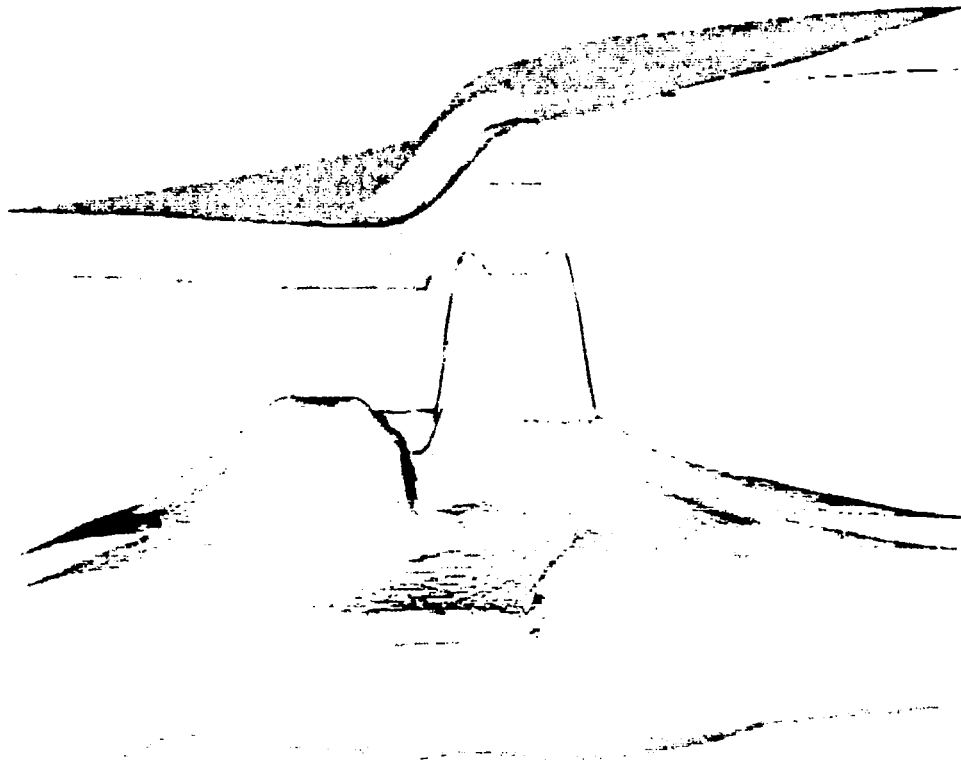


HALLIBURTON
COMPANY



1989 ANNUAL REPORT

40115831



SUPERFUND RECORDS

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Site	<u>Orrego - Bismarck</u>
ID#	<u>MOD 960686251</u>
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Other	<u>12-31-89</u>

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Profile

Established in 1919 Halliburton Company is one of the world's largest diversified oil field services and engineering and construction companies. The Company also provides insurance services.

Approximately two thirds of revenues are derived from sales and services to including construction for the energy industries. Business is conducted in more than 100 countries around the world and about one third of revenues is derived from international sales and services.

The oil field services group is a world leader in providing a wide range of services and products used in the exploration, development and production of oil and gas.

The engineering and construction services group is one of the world's largest providers of engineering, construction, project management, facilities operation and maintenance and environmental services for industrial and governmental customers.

The insurance services group provides property and casualty insurance and healthcare cost management services.

ABOUT THE COVER

New advanced computer software technology is helping geologists and geophysicists see what's beneath the surface. This colorful three-dimensional representation of a faulted Louisiana salt dome is part of a software program known as MIMIC. It was developed by Sierra Geophysics, Inc., a company acquired by Halliburton in 1989 to broaden the oil field services group's geophysical interpretation and reservoir description services capabilities.

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Comparative Highlights

	1989	1988	Increase (Decrease)
	(Dollars in millions except per share data)		
Net income per share	\$ 1 27	\$ 89	\$ 38
Cash dividends paid per share	1 00	1 00	—
Shareholders' equity per share	19 90	19 80	10
Revenues	5 661 2	4 838 7	822 5
Operating income	239 2	152 8	86 4
Net income	135 0	93 6	41 4
Long term debt	198 8	199 6	(8)
Shareholders' equity	2 119 1	2 107 2	11 9
Acquisitions of property, plant and equipment	202 4	168 9	33 5
Depreciation and amortization	244 6	225 0	19 6
Shareholders of record	23 716	29 827	(6 111)
Common shares outstanding at yearend	106 473 000	106 401 000	72 000

Quarterly Common Stock Price Ranges

(New York Stock Exchange)

	First		Second		Third		Fourth	
	High	Low	High	Low	High	Low	High	Low
1989	\$31 3/4	\$27 1/2	\$34 1/4	\$28 3/8	\$40 1/2	\$33 1/2	\$44 1/2	\$34 3/4
1988	\$34 3/4	\$24 1/4	\$36 1/4	\$29 1/2	\$30 3/8	\$25	\$28 1/2	\$25

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To Our Shareholders

In 1989 we continued the operating and financial strategies we began in 1988 and in prior years. Our primary objective is to improve the services and products we offer to our customers in order to make them more successful in their businesses while at the same time improving our own financial results. We have continued the emphasis on our oil field services and engineering and construction groups and both groups expanded the scope of their business activities during the year.

Our financial results improved in 1989 despite a weak first quarter. Net income of \$135.0 million or \$1.27 a share represented a 43 percent increase

over 1988. Net income increased each quarter during the year. However, during the first half of 1989 we experienced weakened demand for oil field services and products when, as we had anticipated, oil and gas drilling activity declined in the United States. This weakness started in the second half of 1988 and continued into the second quarter of 1989. Fortunately, domestic oil and gas drilling activity improved in the second half of the year. However, international activity continued at the slightly lower levels we expected.

As we enter the 1990s we expect oil and gas activity to continue to expand worldwide. Demand is increasing and production continues to decrease in many countries including the United States.



Thomas H. Cruikshank, chairman of the board and chief executive officer of Halliburton Company, at the operations control center of the Information Services Center in Arlington, Texas. The control center is the hub of a vast data and communications system which links Halliburton operations in over 100 countries around the world. It is staffed even days a week around the clock.

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and the Soviet Union. These trends will cause Middle Eastern OPEC countries such as Saudi Arabia, Iraq, Iran, and Kuwait to become the dominant suppliers of the world's petroleum supply by the middle of the decade. Although higher production from these countries will serve to restrain the price of oil, we expect oil prices to rise moderately during the next several years. This will encourage increased oil and gas exploration and production. Thus, we expect improved demand for our oil field services and products in all major markets.

The consequences of these trends will have a very adverse effect on the United States balance of trade. United States oil production is now falling at an alarming rate with no improvement in sight. In 1989 we imported about 46 percent of the oil we consumed, and imports have recently exceeded 50 percent of consumption. During the coming decade our country will be required to import larger and larger amounts of our total petroleum requirements at increasing prices. The total cost of these imports could exceed \$700 billion a year by the end of the 1990s unless the United States energy policy significantly improves the political and economic climate for exploration in this country.

Although our financial results improved in 1989, we have not achieved a long term objective of 15 percent return on equity with continuing growth of net income. Further improvement is required in all of our major business units. During 1989 we disposed of several businesses where our continued participation no longer served to further the strategic objectives of the Company, and we felt that our investment could be better employed elsewhere. We will continue to dispose of assets that cannot meet these objectives, improve organizational structure, and eliminate unnecessary costs, while at the same time investing to improve competitive advantage in those business units where we can achieve our goal.

We must also implement strategies to improve prices for our services and products. Much of our revenue is currently generated at price levels significantly below those existing in 1980. Although we do not expect to return to those levels soon, we do not plan to add capacity in those markets where profit margins do not permit us to achieve our financial goals. Price improvement where justified will be a goal throughout our Company during 1990.

We increased our capital expenditure budget by more than 75 percent during 1989 to \$254 million, as we experienced improved market

conditions. For 1990 we have adopted a capital expenditure budget of \$ 95 million, and we expect that this amount will increase if our oil field services markets improve during the year. In order to fund the capital needs of the Company we have emphasized management of our cash resources. This has become an increasingly complex task, as our business units have continued to expand their international activities. In 1989 our business units did a good job of managing working capital requirements, as their revenues expanded.

During the last several years we have made a number of acquisitions in order to implement strategies of our business units. We believe we have paid reasonable prices, and gained value in each case. In 1989 a major management objective was the combination of recent acquisitions with existing or previously acquired business units. This is a critical process, because nearly all of our acquisitions have been people intensive businesses. In some cases this process has taken longer, and has been more costly than we anticipated, but we are satisfied that the extra effort will result in stronger, more competitive businesses.

We will continue to use carefully selected acquisitions to obtain needed technologies, expand geographic markets, and extend our existing strengths into new businesses. It is likely that most of these acquisitions will be relatively small and related to specific needs of one of our business units. Others will accomplish objectives of a broader nature. We do not intend to make acquisitions which move us away from our core businesses, although we will look for opportunities to extend those businesses.

As we address the challenges of the 1990s we have two overriding parameters to our strategic objectives: safety and quality. The safety of the workplace for our employees is of utmost concern to us, and we continually seek to improve work practices and products in order to safeguard our employees, customers, and the public.

Continued emphasis on improving the quality of services and products enhances our emphasis on safety. We seek to make quality improvement an ongoing and integral part of our management. Although we have made considerable progress, we are increasing quality improvement programs throughout our Company.

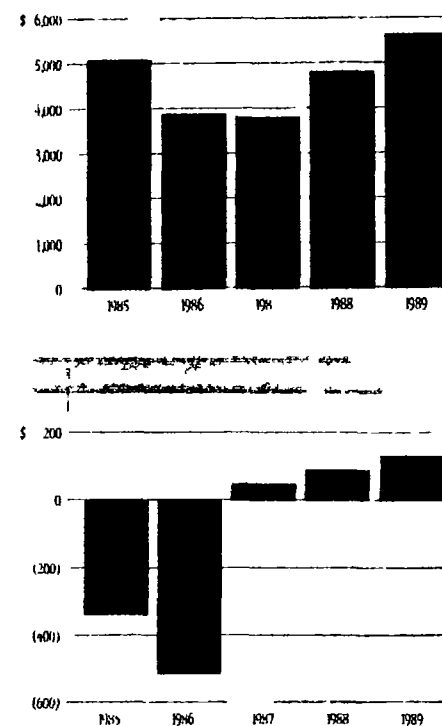
Again this year I would like to express my appreciation to our employees for their dedication, skill, and perseverance. During the 1980s most of our business units went through depressed business environments in which employment levels were significantly reduced. As the oil field services group and the engineering and construction

services group begin to grow again, our ability to train and retain skilled employees is a major challenge and a critical requirement for our profitable growth. Training at all levels of our Company is a major commitment, and it is critical to the accomplishment of our safety, quality, and profitability goals.

Respectfully submitted,

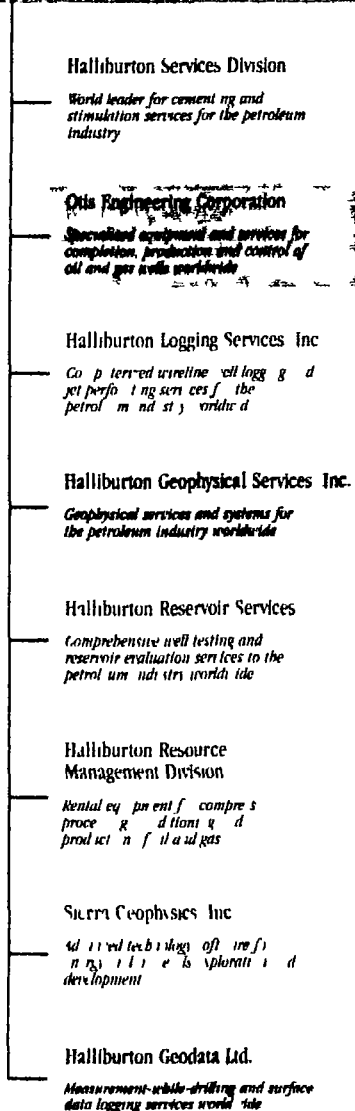
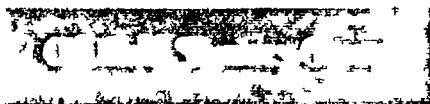
Thomas H. Cruikshank

Thomas H. Cruikshank
Chairman of the Board and
Chief Executive Officer



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Review of Operations



Overview

Halliburton Companies oil field services group made significant progress on several fronts during 1989. The groups financial results led by the strong performance of Halliburton Services and Otis Engineering reached the highest level of profitability since 1985.

Over the past two years the Company has established an industry leadership position in providing the component services for reservoir description. These services which include geophysical and logging services accounted for more than 30 percent of the groups revenues in 1989.

The results achieved during 1989 clearly demonstrate that the groups strategy is working. Halliburtons objective is to make its customers more successful wherever they operate whatever the magnitude and complexity of their needs. This goal is supported by the groups commitment to continued technological leadership, worldwide marketing of products and services, continual improvement of the quality of products and services offered, maintenance of a safe work environment for the groups employees and earning a reasonable profit.

General market conditions for the oil field services groups products and services were weaker in 1989 compared to 1988. Activity levels as measured by the average number of rotary rigs drilling wells worldwide declined by about 11 percent. Drilling and workover activity began to improve in the second half of 1989 reflecting a return of customer confidence that oil prices would remain high enough to economically justify increased exploration and development spending. This confidence was supported by oil prices that increased by more than 25 percent during 1989.

Financial Review

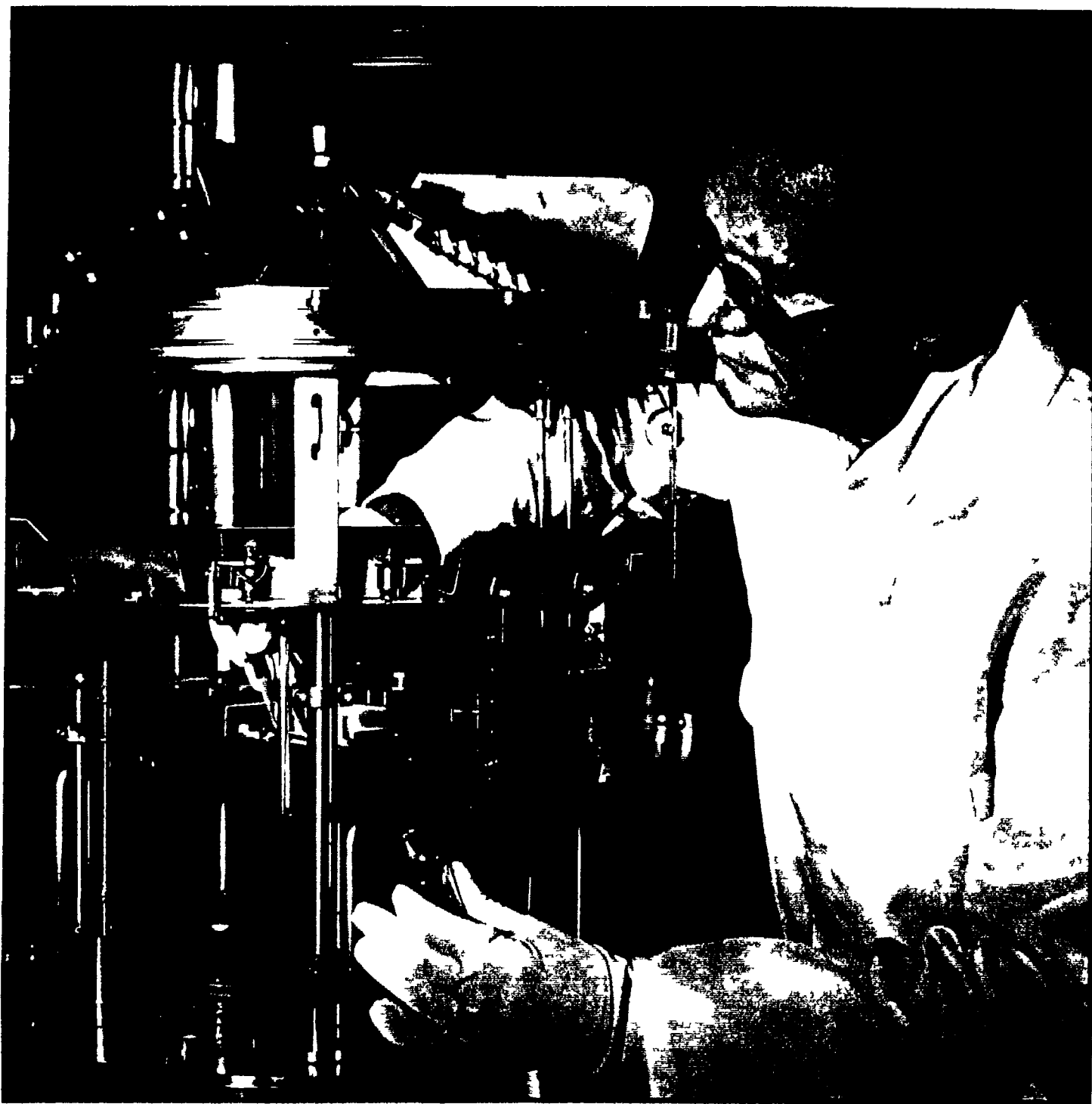
The oil field services groups revenues increased to \$2.4 billion in 1989 up 13 percent from 1988. This increase was accomplished despite lower drilling activity. Revenues generated in the United States declined by three percent while international revenues and export sales increased by 32 percent.



	1989	1988	1987	1986	1985
Revenues	\$2,448.0	\$2,173.0	\$1,549.2	\$1,797.7	\$2,925.1
Operating Income (Loss)	168.2	95.8	17.7	(354.0)	363.0
Depreciation and Amortization	204.4	187.1	182.9	236.5	271.2
Capital Expenditures	166.5	128.5	48.9	80.6	198.7
Identifiable Assets	1,995.1	2,117.8	1,537.8	1,789.8	2,533.4
Employees	26,000	27,600	18,600	18,700	29,200

Includes special write-down of \$408.6 million in 1986

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Since its introduction into field use in 1968, the Halliburton Memory Recorder (HMR) has become the industry standard for pressure gauge technology. The quartz crystal pressure transducer, which forms the heart of the HMR gauging system, are assembled under rigid environmental conditions at the Halliburton Research Center at Duncan, Oklahoma. Here Jack Elam, electronics technician, operates a vapor deposition system which bonds a thin film of molten gold leaf onto the quartz transducer. The gold helps to fine-tune the frequency of the crystal.

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It has the look and consistency of a mill-milled cake but it is actually a new type of foam being tested by Phil Harris of Halliburton Services research. Chemical foams are being used with increasing frequency in field stimulation jobs because they create longer, wider fractures with less fluid volume. They are often easier to pump and achieve better proppant distribution in the fracture.

The group has adjusted to place more emphasis on international markets where customers are spending a larger percentage of their exploration and development budgets. As a result, the oil field services group's international and export sales business has increased from 57 percent of total revenues in 1985 to 44 percent in 1988 and 52 percent last year. Although demand in the United States is beginning a gradual recovery, international markets are expected to continue to generate more than one-half of the group's revenues.

Operating income of the group reached \$168.7 million in 1989 compared to \$95.8 million in 1988. The increase in profitability experienced in 1989 resulted from a combination of an improved mix of more technical products and services sold, larger jobs and benefits from cost control programs. Prices generally remained at 1988 levels and did not significantly benefit profitability in 1989.

Capital expenditures increased to \$166.5 million, up 30 percent from \$128.5 million a year earlier. The increased spending was largely dedicated to replacing field service equipment and adding capacity in certain international markets.

Total oil field services employment declined by 1,600 during 1989 to 26,000 employees. The reduction was largely due to the elimination of duplicate job functions relating to the reorganization of the groups Halliburton Geophysical Services and Halliburton Logging Services business units.

Halliburton Services and Otis Engineering Lead Progress

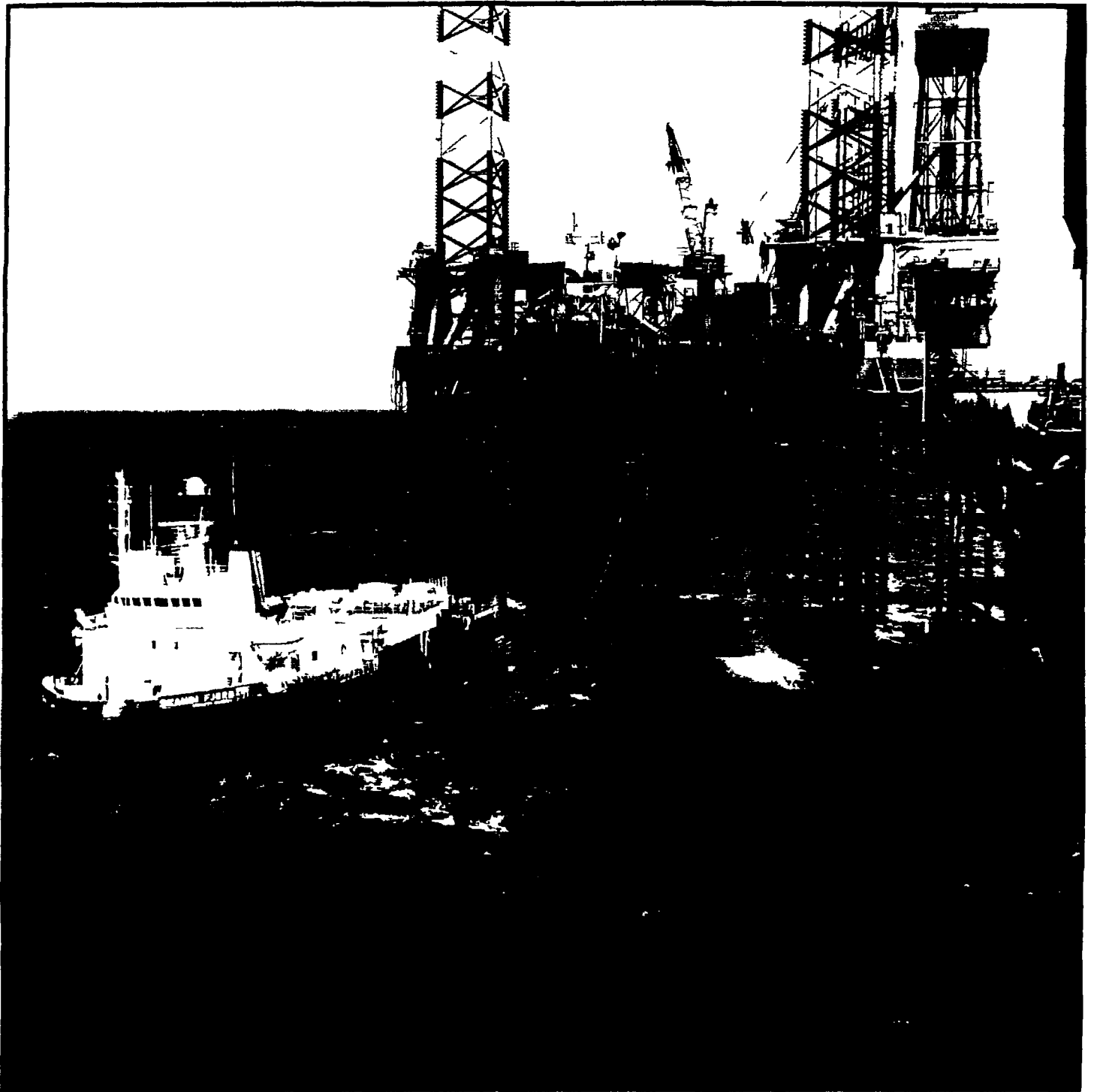
Halliburton Services and Otis Engineering were the primary contributors to the improved earnings of the oil field services group in 1989.

Halliburton Services revenues expanded modestly and operating profits increased substantially primarily due to better margins in the United States.

The company benefited from increased natural gas drilling and workover activity on existing wells in the United States. More than 800,000 producing oil and gas wells in the United States are the foundation of the workover business because they periodically require services to maintain or enhance their production capabilities.

During 1989 Halliburton Services initiated a number of programs designed to expand its international business. One program introduced the use of ultra-high pressure fracturing treatments using new intensifier-type pump designs in Yugoslavia and other Eastern European countries. The market for oil field services and products in Eastern Europe and the Soviet Union is very large and is being pursued by Halliburton Services and other oil field services group business units in many areas.

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Working from the *Skandi Fjord*, the largest stimulation vessel in the world, Halliburton Service, BV of The Netherlands set two records in 1983 that dwarf those previously existing in the industry. During a stimulation program in the Danish sector of the North Sea, the *Skandi Fjord* treated nine different zones on one 2,000 ft. section of a horizontal well. Halliburton pumped 86 million pounds of sand proppant over a 31 day period, the most sand ever pumped into any offshore well, and the largest single treatment performed on an offshore horizontal well. Here, the vessel is alongside the *Marl Endeavour*, the platform on which the record job was performed.

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Until recently completion and maintenance operations on subsea wells in the North Sea were limited to semi submersible drilling rigs or other stationary vessels employing a rigid riser. Now Otis Engineering and Rockwater Offshore Contractors, a Halliburton joint venture, have developed the Subsea Well Intervention Services (SWIS) system. SWIS enables customers to conduct subsea operations and maintenance from many types of vessels such as diving support vessels, work barges and small and large semi submersible rigs — without a rigid riser — saving them both time and money.

Otis Engineering also experienced modest growth of revenues and strong improvement of operating income. Otis has established a substantial international presence and in 1989 more than 55 percent of its revenues were generated by international and export business. These revenues were derived from sales in 53 countries around the world including the Soviet Union and other Eastern European countries.

Otis is a major proponent of the Quality Improvement Process (QIP) which has been established as a major business strategy for the entire Company. The success of QIP is the result of close management and employee working relationships in all functional areas including manufacturing, engineering, field service and administrative functions. QIP at Otis has resulted in lower raw materials inventories, improved manufacturing and engineering productivity, streamlined inspection procedures and reduced response and delivery times. The net result of QIP is higher productivity, substantial cost savings and greater customer satisfaction.

Close working relationships between Halliburton business units also help to better meet customer needs. The Subsea Well Intervention Services (SWIS) System is an example of this competitive advantage. SWIS allows fast, economical subsea wireline and reeled tubing services from many types of vessels without a rigid riser. These services are jointly provided by Otis and Rockwater Offshore Contractors, a major provider of underwater construction and maintenance services. Rockwater was recently formed by combining Halliburton's diving services business with Smit Offshore Contractors. Together, Otis and Rockwater offer a complete range of wireline and reeled tubing equipment and services for subsea wells.

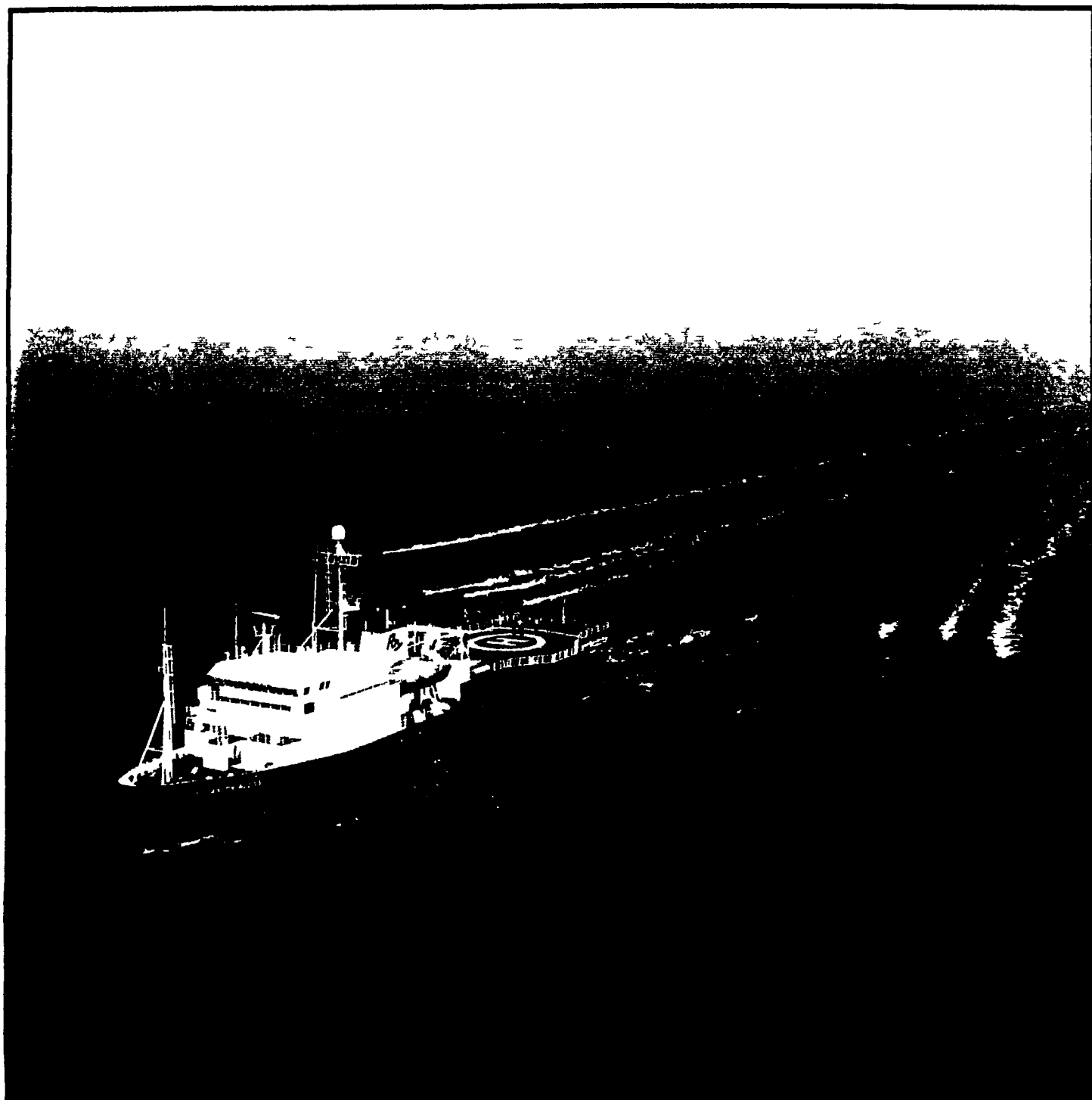
World Geophysical Leadership Position Established

Just two years ago Halliburton did not offer products and services to the geophysical market. By combining the operations of Geophysical Service Inc. with those of Geosource Inc., both of which were obtained through acquisitions in 1988, the Company formed Halliburton Geophysical Services Inc. (HGS).

Although the formation of HGS was announced at the end of 1988, actions to achieve cost reductions and efficiency gains were implemented throughout 1989. Manufacturing sites were reduced from six to three; they are now located in the United Kingdom, The Netherlands and Houston, where HGS is headquartered. Research and technology development capabilities were also consolidated.

Today HGS employs about 3,600 people in 44 countries worldwide. It operates 17 marine seismic vessels and 63 land crews. A poor market in the United States for seismic work during 1989 was partially offset by HGS's strong presence in international markets. Last year, 80 percent of HGS's revenues were from international business.

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The year 1987 was the first full year of operation for Halliburton Geophysical Service Inc. (HGS) which was formed in June 1988 by the combination of Geophysical Service Inc. and Geosource Inc. HGS was active throughout the year performing seismic data collection in the North Sea and other offshore locations. Here the HGS Polar Prince is conducting data gathering operations off the Netherlands. The seismic data is collected by several hundred pressure sensitive hydrophone contained in long streamers towed behind the vessel at a depth of about 100 feet.

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Logging Business Combined

Halliburton Logging Services Inc. (HLS) was formed at the end of 1988 by combining Halliburton's Welex Division with the wireline logging business of Gearhart. During 1989 HLS merged the people, equipment and technologies of these businesses to form a worldwide organization that offers a comprehensive array of wireline logging, measurement while drilling, and perforating services.

The formation of HLS has resulted in a reduction of operating costs. Headquarters were combined in Houston, and 27 duplicate sales and service locations in the United States were eliminated without any loss in customer responsiveness. Major manufacturing operations were consolidated in Fort Worth, where downhole tools and surface equipment are produced. Research and development locations were consolidated; duplicate research efforts were eliminated, and new research priorities were established. The consolidation has resulted in a 15 percent reduction of employment levels.

New Business Unit Dedicated to Reservoir Evaluation and Well Testing

Halliburton Reservoir Services (HRS) was formed at the end of 1988 in order to provide drill stem and production testing, data acquisition, and reservoir analysis services on a worldwide basis within one business unit. These services previously had been provided independently by several of the oil field services groups' units. Halliburton Services, HLS, and Otis Engineering each contributed



Gavle Laurin (center), marketing product manager for Sierra Geophysics, demonstrates one of the company's advanced computer software programs for prospective clients at the Kirkland, Washington headquarters. Sierras customers include most major oil companies and many independent producers, geophysical contractors, mining companies, universities and government agencies.

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skilled technicians, equipment and technology to the formation of HRS. By the end of 1989 HRS had established operations in 57 countries around the world. Accurate, reliable interpretation of reservoir data is critical for customers to make optimal decisions for their exploration and development programs.

The formation of HRS strongly supports the group's strategy to offer a full range of reservoir description services.

Software Expertise Added to Reservoir Description

Halliburton acquired Sierra Geophysics in 1989 to broaden the oil field services group's geophysical interpretation and reservoir description services capabilities. Sierra built its reputation by providing sophisticated geophysical computer software to leading oil and gas companies around the world. The cover of this annual report is an example of Sierra's capabilities.

More than 100 professional geoscientists and software engineers form the team that designs Sierra's software. Their computer programs target four major areas of exploration and development: geologic interpretation, seismic modeling, seismic processing, and seismic interpretation.

Research and Development Achievements

Halliburton's oil field services group continues to invest aggressively in research and development. Research and development expenditures totalled \$105 million in 1989, an increase of 35 percent over 1988 and 75 percent above 1987.

The group's achievements during 1989 were both tangible and significant, resulting in 142 patents for new products and processes — an increase of 33 percent over 1988's 93 patents. Halliburton Services, the largest of the Company's oil field services units, received 58 patents and introduced 65 new products last year. The new product introductions were well ahead of the 54 new products developed by the division in 1988.

Many of these new products are cementing and stimulation chemicals. One significant development was PropLok, an economical method for retreating sand and other proppant materials in the formation after fracturing has been completed. PropLok prevents sand and other materials from flowing back to the wellbore. It has been demonstrated that treating a well with PropLok significantly improves the permeability of a fracture.

An important component of Halliburton Services' work at its research facilities in Duncan, Oklahoma, involves joint projects with major energy-producing companies, joint research agreements with universities and participation in consortiums operating within the petroleum industry. These efforts pool the strengths and experience of each participant.



Although drilling activity was down in the United States in 1989, the Black Warrior Basin of Alabama kept drilling, and oil field service companies busy. The region held large deposits of pure methane gas which are trapped in hollowed-out and which are a valuable addition to the nation's energy supply. Halliburton fractured almost 200 wells in the Black Warrior during the year ending similar to this one.

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Technical Leadership Recognized

Halliburton's history of successful technological innovation has been sustained by a highly skilled and dedicated technical staff which includes scientists, engineers, mathematicians and other technologists. At the end of 1989, the group's research activities were being conducted by 1,500 technical employees.

The oil field services group established a technical ladder in 1989, recognizing the outstanding contributions key technical employees have made to advance technology in their respective fields. Initially, the steps of the ladder rise from Contributing Member to Senior Member and Distinguished Member of the Technical Staff.

The three Distinguished Members of the Technical Staff for 1989 are John W. Minear, research associate and manager of the acoustics research section of Halliburton Logging Services; the late John S. Rodgers, senior staff engineer of Halliburton Reservoir Services; and David L. Sutton, senior research chemist of Halliburton Services.

Minear was cited for his contribution to acoustic logging technology; Rodgers for his contribution to well test analysis technology; and Sutton for his contribution to oil well cementing technology, development of cement laboratory instrumentation and the advancement of gas migration and cement expansion technology.

This program will continue to recognize work of distinction contributed by members of Halliburton's technical staff.

To recognize outstanding technical contributions made by Halliburton employees, the oil field services group established a technical ladder in 1989. Over 130 individuals were honored for scientific advances in their respective fields. Three of the recipients were named as distinguished members of the technical staff, currently the highest award bestowed by the group. They are the late John S. Rodgers, left, senior staff engineer with Halliburton Reservoir Services; David L. Sutton, senior research chemist of Halliburton Services; and John W. Minear, opposite page, research associate and manager of the acoustics research section of Halliburton Logging Services.



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Emphasis on Safety

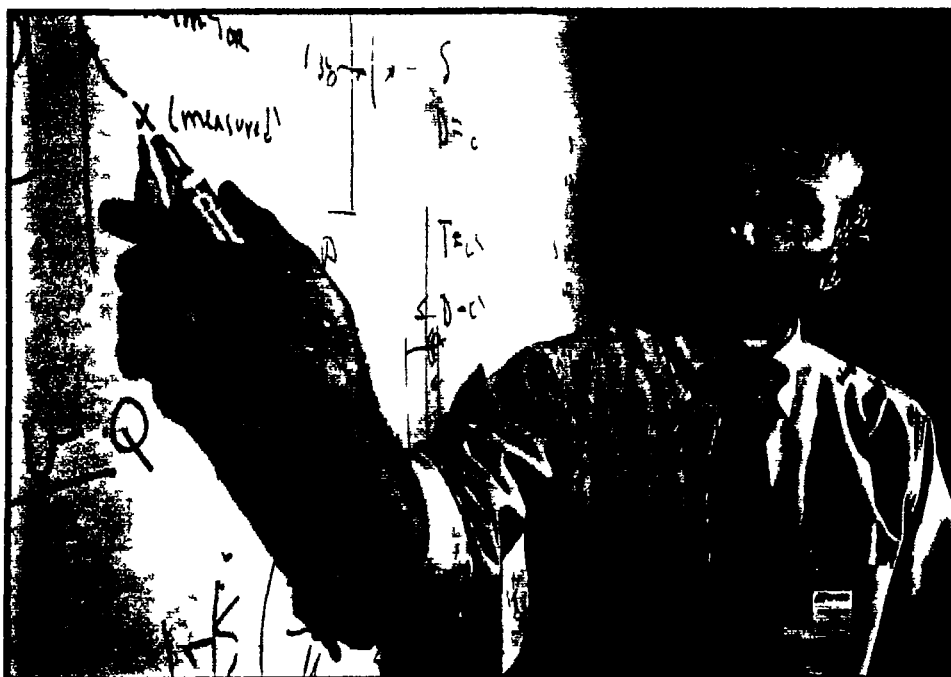
In 1989 Halliburton Services and Otis Engineering were recipients of the Occupational Safety and Health Administrations (OSHA) coveted Star award. The Star award is made to companies whose health and safety programs exceed those prescribed by the federal government. Otis and Halliburton Services are the only companies in the oil and gas services industry ever to earn these awards and only 64 companies in the United States from all of OSHA's industrial classifications have received Star designations.

The entire Company is proud of Halliburton Services and Otis for achieving Star recognition. The awards are outward evidence of their many years of effort and commitment to providing a safe work environment for all employees.

Outlook

The oil field services group is expected to benefit from gradually strengthening demand in 1990. Customers have indicated that they plan to increase exploration and development spending by slightly more than 10 percent, with a higher proportion to be spent in the second half of the year and in international markets.

In order to better meet demands of the international marketplace, plans are being implemented to establish manufacturing facilities in Singapore and Mexico. A research facility will be opened in Europe during the year. The group continues its commitment to quality improvement, cost reduction, research and employee safety as it achieves its goal of making the Company's customers more successful.



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Overview

The 1988 annual report stated that "The engineering and construction group entered 1989 with a better business outlook than a year ago. The group has a stronger backlog, a more focused organizational structure, and generally stronger demand for its services in the United States and international markets."

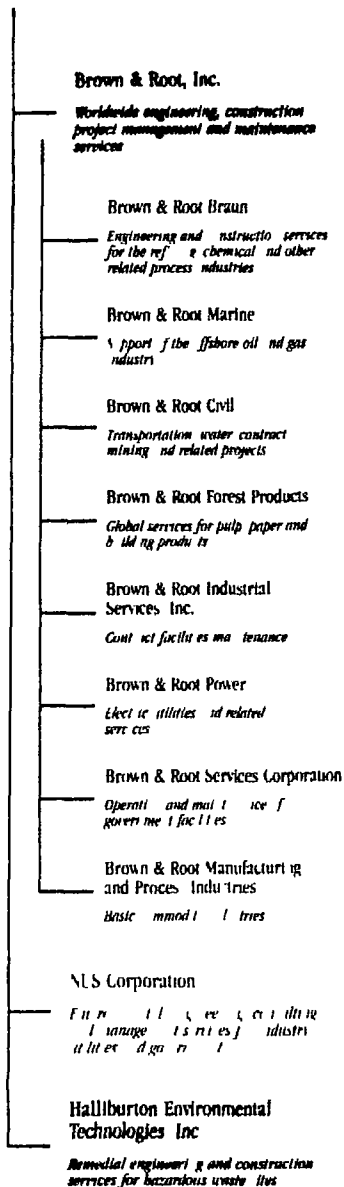
The business outlook for 1989 proved to be accurate. Many of the business units in the group, particularly the Brown & Root Braun, Forest Products and Marine units of Brown & Root, along with NUS, experienced improved demand. The group's sharper strategic focus, combined with improved demand, resulted in 1989 revenues and operating income reaching their highest levels since 1982 and 1983, respectively.

Financial Review

Revenues of the group increased from \$2.2 billion in 1988 to \$2.9 billion in 1989, a 35 percent gain. Operating income increased 74 percent to \$577 million. Employment at the end of the year was up 16 percent to 38,200 employees.

International operations continued to contribute significantly to the group's financial performance. During 1989, 25 percent of the group's revenues and 33 percent of its operating income came from business outside the United States, with operations in Europe and the Middle East making the largest contributions.

The group continued its tight management of capital expenditures and working capital during the year. Capital expenditures declined 13 percent to \$55.6 million. Brown & Root continued its program to improve terms of payment for major projects. As a result, the group made significant progress toward achieving the return on investment goals of the Company.



	1989	1988	1987	1986	1985
Revenues	\$2,858.3	\$2,157.3	\$1,818.4	\$1,700.5	\$1,853.6
Operating Income (Loss)	57.7	46.6	18.9	(229.8) ^a	(243.1)
Depreciation and Amortization	35.1	34.0	32.6	45.4	72.4
Capital Expenditures	33.6	38.4	77.4	15.4	40.0
Identifiable Assets	853.6	798.6	789.4	657.3	929.7
Employees	38,200	32,800	28,800	27,600	34,700

^a Includes special write-downs of \$12.5 million in 1986 and \$9.8 million in 1985, respectively.

BROWN 400 50



More than 1,500 engineers and support personnel work at Brown & Root's impressive Alief building in West Houston. The building contains 550,000 square feet of working space for one of the largest engineering and design staffs in the nation. Most of the people in this room and in the building are attached to the Forest Products engineering group, which is currently working on two major pulp and paper mill projects with a combined contract value of over \$1 billion.

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CF Braun Strengthens Petroleum and Chemical

Two years ago Brown & Root undertook a program to further integrate its engineering project management and construction services. Although much of the effort to achieve this objective has been internal, Brown & Root took a major external step in 1989 by acquiring CF Braun Inc, one of the world's leading petroleum and chemical engineering companies. The purchase price was \$59 million.

Brown & Root and CF Braun have worked together on numerous projects during the last quarter of a century. This association provides confidence that the acquisition adds value well beyond the amount of the purchase price.

CF Braun brings strong expertise in process and detail engineering which fits perfectly with the engineering project management and construction capabilities of Brown & Root. The accompanying matrix illustrates how well the two organizations fit together. The CF Braun organization and its 1,600 employees are now an integral part of the Brown & Root Braun business unit.

As a result of the CF Braun acquisition and its integration with the Petroleum and Chemical business unit, Brown & Root Braun now participates in markets where customers seek a single source for the engineering and construction of major petroleum and chemical projects. Several projects were awarded to Brown & Root Braun in 1989 that would not have been won without this combined capability.

The acquisition of CF Braun greatly strengthens Brown & Root's process and detail engineering capabilities as this matrix shows. Brown & Root Braun can now offer customers a single source of engineering and construction services for a wide range of petroleum and chemical industry projects.

SOURCES				
MARKET		DETAIL ENGINEERING	CONSTRUCTION	MAINTENANCE
ETHYLENE		BRAUN	B&R	B&R
AMMONIA		BRAUN	B&R	B&R
OTHER PETROCHEMICALS		BRAUN/B&R	B&R	B&R
REFINING		BRAUN	B&R	B&R
OIL & GAS		BRAUN/B&R	B&R	B&R
SPECIALTY		B&R	B&R	B&R

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Working from a campus-like facility in Alhambra, California, CF Braun engineers use the latest methods and techniques to design many types of projects. One such technique is electronic modelling, which is replacing miniature models in the design and modification of structural details. The display on the computer screen in the foreground by Carlos Aldana, a CF Braun piping designer, is projected on the wall in the background to help a client modify piping for an ethylene plant in Texas.

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A submarine trencher is lowered into the North Sea from a support vessel on a Rockwater Offshore Contractors cable installation project. Rockwater was formed at the end of 1989 when Halliburton combined its diving service business unit with the subsea construction business of Smit International.

Forest Products Business Growing

The ability to manage the integration of engineering and construction services also produced significant results in the Brown & Root Forest Products business unit during the year.

Brown & Root was awarded large jobs to engineer and construct projects for Champion International in Alabama and Vekoosa Papers in Arkansas. The combined contract value of these two projects exceeds \$1 billion. On projects of this magnitude, the ability to engineer, manage, procurement of materials and build the projects is a significant competitive advantage because the project owner can rely upon Brown & Root to coordinate the interface among these activities. This provides meaningful cost savings for the customer and greater profit opportunities for Brown & Root. Both of these projects are continuations of long term relationships with these customers.

Additional Restructuring of Marine Unit

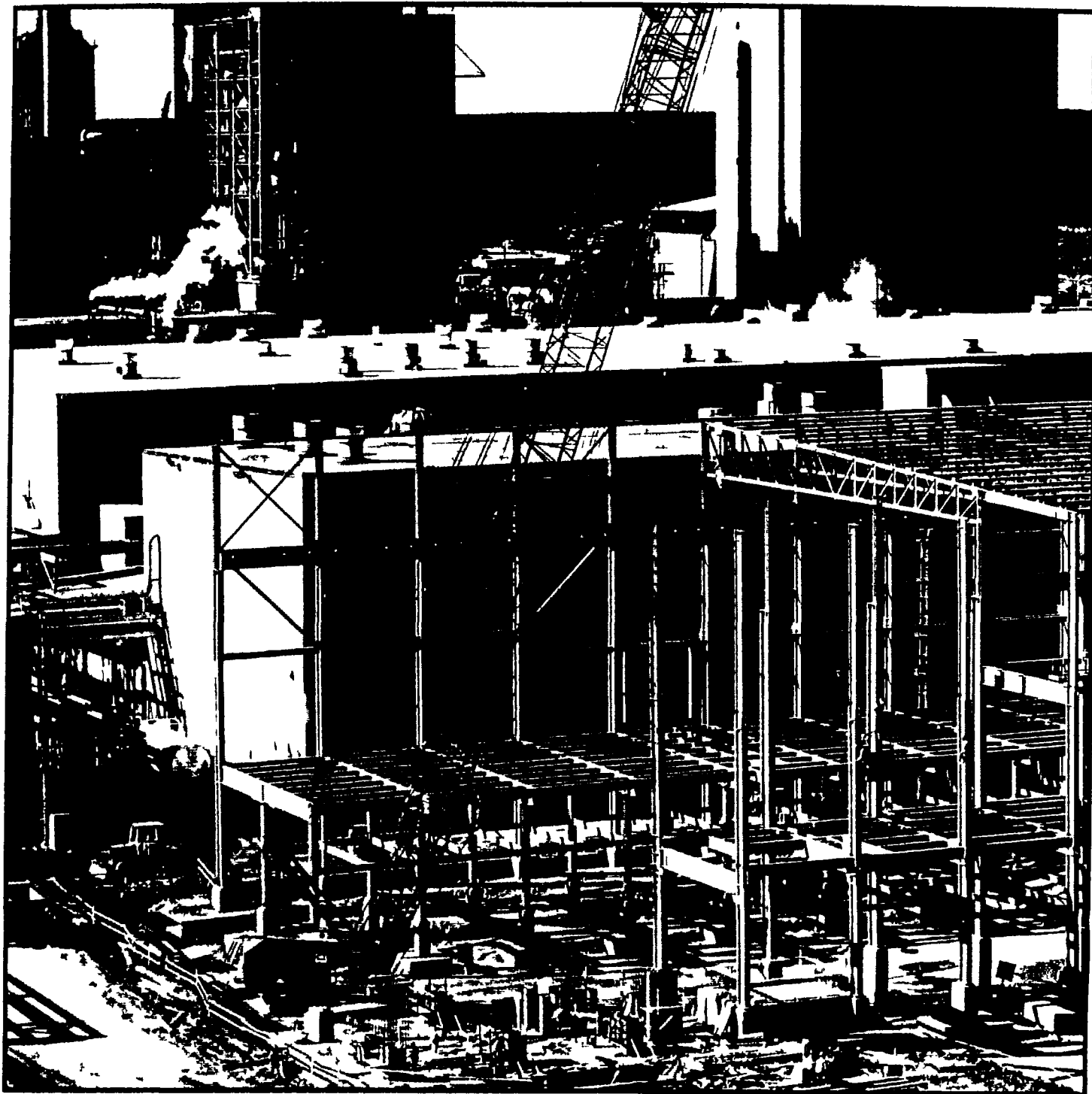
Brown & Root Marine took several additional steps during the year to reduce its participation in the more capital intensive sectors of the offshore construction business while at the same time continuing to grow its marine engineering and project management business.

A decision was made in late 1989 to seek a purchaser for a major portion of Brown & Root's marine construction assets. The assets which may be sold include most of Brown & Root's vessels and barges currently operating in the United States, Far East and Middle East. It is expected that such a sale will be completed during 1990. This possible sale does not include Brown & Root's equity interests in European Marine Contractors, Highlands Fabricators and Rockwater Offshore Contractors.

In 1989 the Company sold its 17.5% interest in Zapata Gulf Marine Company for \$31.5 million. This interest was established in 1984 when Halliburton joined with several other companies to combine their supply vessel and tug fleets serving the offshore oil and gas industry. At that time the market for these vessels was flush with oversupply. The combination achieved significant cost savings and created a successful business. The sale of the Company's interest is a withdrawal from an investment that no longer meets the needs of Brown & Root's marine business.

At the end of 1989 the Company combined its diving services business unit with the subsea construction business of Smit International Group to form Rockwater Offshore Contractors. Halliburton owns 50 percent of this new company which is based in Aberdeen, Scotland. Rockwater is one of the leading subsea service companies in the world with particularly strong market positions in Europe and the Middle East.

BROWN 40054



At the end of the year Brown & Root's Forest Products business unit was well underway on two major pulp and paper mill expansion projects. One of them was for Nekoosa Papers in Ashdown, Arkansas. Part of the superstructure, which will house a new 330-inch wide uncoated free sheet paper machine, has been under construction in the foreground. The machine will be able to process paper at a rate up to 1,000 feet per minute. Brown & Root built the original plant shown in the background in the late 1960s and has participated in several updates since that time.

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Brown & Root Marine continued expansion of its engineering business in 1989. The unit employed about 7400 engineers and technical personnel at yearend. Completed in 1989 were engineering projects for Shells Kittiwake and Sole Pit fields in the North Sea, British Petroleum's Miller field in the North Sea, and Exxon's Santa Ynez project in Santa Barbara, California.

In 1989 the marine engineering unit received significant new awards in the North Sea from Occidental Petroleum for its Piper field redevelopment project and from British Petroleum for a project in the Bruce field.

NUS Meeting Environmental Needs

Markets for the group's environmental services continue to expand as industries in the United States respond to the heightened awareness of clean air and water concerns. NUS has been the Company's principal participant in this market. NUS developed its environmental services capabilities to provide a wide range of services to the commercial nuclear industry. As the environmental regulatory process grew in the early 1980s, NUS became a major support contractor for the United States Environmental Protection Agency. Later, NUS expanded to provide environmental health and safety services to industries seeking to comply with evolving environmental regulatory requirements. NUS now provides a full range of environmental engineering, consulting, safety training, and laboratory services.



A meeting of aliens from outer space? No, it's a training program for toxicological and radiological technicians being run by Halliburton's NUS Corporation for the United States Environmental Protection Agency. In five days of intensive training at a camp in New Jersey, the technicians are taught hazard recognition, evaluation and control, and emergency responses. The gas- and vapor-tight environmental suits were donned shortly before the students participated in a simulated emergency exercise.

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Actions have also been taken to extend the Company's environmental services into European and Far Eastern markets where environmental concerns are also becoming national priorities. The experience that VLS and other business units have developed in the United States gives Halliburton a competitive advantage in these markets.

New Hazardous Waste Remediation Unit

In addition to VLS, Halliburton Services and Brown & Root also have developed specialized services applicable to cleanup and remediation of hazardous waste. In 1989 the Company formed Halliburton Environmental Technologies, Inc. (HET) as a new business unit to enter the hazardous waste site remediation market. HET brings together capabilities developed by these three business units to provide comprehensive remediation services to industry and government.

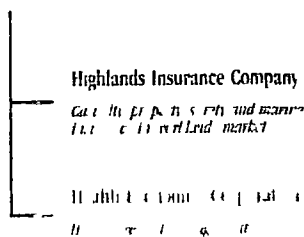
The demand for these services comes from many of the Company's customers for its oil field engineering and construction services. HET is an extension of Halliburton's existing skills into a new market providing services to familiar customer groups.

Outlook

Further improvement in the performance of the engineering and construction services group is expected during 1990.

Demand for the group's services continues to increase. This is evidenced by a growing backlog which was \$3.8 billion at the end of 1989, an increase of \$1.2 billion for the year. The year's biggest backlog gains were experienced by the Brown & Root Forest Products and Brown & Root Braun units.

The major focus of the group will be improvement of profit margins through cost control and concentration of marketing efforts in those businesses where it has sustainable competitive advantage. The group will continue to expand and broaden its engineering and technical capabilities as a means to achieve its goals.



The insurance services group includes Highlands Insurance Company and Health Economics Corporation. Health Economics Corporation sold Life Insurance Company of the Southwest for \$77 million in 1989 after determining that continued ownership no longer provided a significant advantage to the Company and that the life insurance company's future success requires ownership with a long term commitment to the life insurance business.

Highlands underwrites a broad spectrum of property and casualty insurance. Highlands has experienced many of the difficulties facing the property and casualty insurance industry in the United States. During 1989 a number of natural catastrophes and industrial accidents adversely impacted underwriting results. In order to control underwriting losses in the future, several lines of business have been reduced.

Highlands writes a significant amount of workers' compensation insurance, particularly in Texas. During the past several years the profitability of this line of business has been adversely impacted by large assessments from the assigned risk pool in Texas which provides coverage to employers who cannot obtain private insurance. At the end of 1989 major workers' compensation reform was adopted in Texas which, together with continued improvement in rates, should mitigate assessments from the assigned risk pool in the future. It will take several years to assess the effectiveness of these reforms. Meanwhile, Highlands will continue its conservative underwriting practices. Highlands' investment portfolio consists solely of investment grade securities and does not include junk bonds which have caused problems for some other industry participants.

Health Economics Corporation (HEC) has expanded its services to employers for management of healthcare benefits. These services include utilization review, claims processing, management of preferred provider organizations (PPOs), self-insured healthcare benefit review and design, and healthcare cost studies for employers, coalitions, and insurance companies. Proposed accounting rules changes to currently record the future cost of post-retirement benefits have increased the benefit of these services to employers. More than 975,000 employees and dependents are now covered by Health Economics services.

	1989	1988	1987	1986	1985
Revenues	\$ 354.9	\$ 513.4	\$ 467.1	\$ 410.8	\$ 324.4
Operating Income	32.5	29.0	31.5	44.8	28.1
Depreciation and Amortization	1.7	1.0	1.7	1.7	1.4
Capital Expenditures	1.7	1.4	3.1	1.4	1.1
Identifiable Assets	914.0	1,516.2	1,319.2	1,167.0	1,018.5
Employees	900	1,000	1,100	1,100	1,100

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Financial Review

Selected Financial Ratios

Ratio of operating income to total assets is a measure of the company's ability to generate income from its assets. A ratio of 1.00 indicates that the company's operating income is equal to its total assets.

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Management's Discussion and Analysis of Results of Operations and Financial Condition

1989-1990 Operations

1989-1990 Operations

Operating income for 1989-1990 was \$1,000 million, an increase of 33% from the prior year. This increase was primarily due to an increase in operating income from the operations of the company's subsidiaries, which was \$1,000 million, an increase of 33% from the prior year. This increase was primarily due to an increase in operating income from the operations of the company's subsidiaries, which was \$1,000 million, an increase of 33% from the prior year.

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1988 Compared to 1987

Consolidated revenues for 1988 were \$4,848 / million, an increase of 26% from 1987. Improved performance for all three segments and the acquisitions of GSI and Gearhart accounted for the increase in revenues. Excluding the revenues of GSI and Gearhart, total revenues increased 17% due primarily to increased service volume.

Consolidated operating income for 1988 was \$157.8 million as compared to operating income of \$51.2 million for 1987. Nearly all of the improvement in operating income occurred in international operations. Total operating income was not materially affected by the consolidation of GSI or Gearhart. However, a \$77.2 million (before tax) provision for restructuring the Company's geophysical and logging businesses reduced 1988 operating profit by 15%. Most of the impact of this provision occurred in domestic operations.

Net income for 1988 was \$93.6 million, or 89 cents a share. Net income for 1987 was \$48.1 million, or 45 cents a share. Excluding the effects of a change in accounting method, net income for 1988 would have been \$89.6 million, or 81 cents a share.

Oil Field Services and Products

Revenues from oil field services and products increased 40% to \$2,173.0 million. Excluding revenues resulting from acquisitions of GSI and Gearhart, oil field services and products revenues increased 16%. Most of the revenue improvement (excluding acquisitions) occurred in the first half of the year. Operating income for the oil field services and products segment was \$95.8 million as compared to operating income of \$17.7 million for 1987. Most of this improvement occurred in international operations.

Engineering and Construction Services

Engineering and construction services revenues increased 18% to \$2,152.3 million while operating income increased from \$18.9 million in 1987 to \$46.6 million in 1988. Most of this improvement occurred in international operations.

Insurance Services

Revenues from the insurance services segment were \$513.4 million as compared to \$462.7 million in 1987, an increase of 11%. Operating income of \$29.0 million for 1988 was down from \$31.5 million in 1987 because increased underwriting losses exceeded improvements in investment income.

Nonoperating Items

General corporate expenses were \$18.6 million in 1988 as compared to \$16.9 million in 1987. Interest expense and income were \$2.2 million and \$17.2 million, respectively. The decrease in interest income is mainly due to the use of cash resources to complete the acquisitions of GSI and of Gearhart. Foreign currency gains were about the same during the two years.

EFFECTS OF INFLATION

With the lessening of the annual inflation rate in the last several years, management believes that the impact of inflation on revenues, costs and expenses has been modest.

LIQUIDITY AND CAPITAL RESOURCES

The Company ended the year of 1989 with cash and equivalents of \$401.8 million, an increase of \$57.2 million from the prior year. Excluding cash and equivalents from the insurance services group, which are restricted from general corporate purposes unless paid to the parent as a dividend, cash and equivalents were \$361.8 million at the end of 1989 compared to \$283.3 million and \$547.3 million at year-end 1988 and 1987, respectively. The reduction in 1988 was mainly due to the acquisition of GSI and Gearhart.

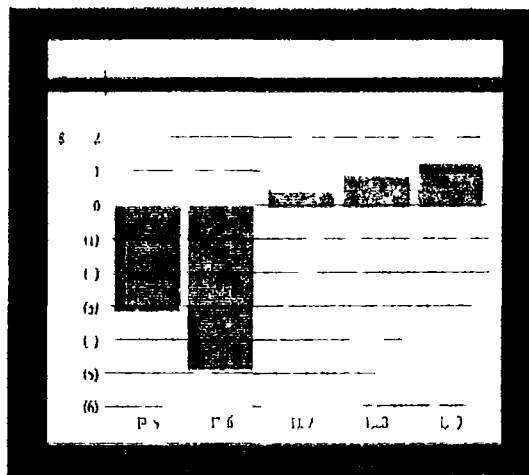
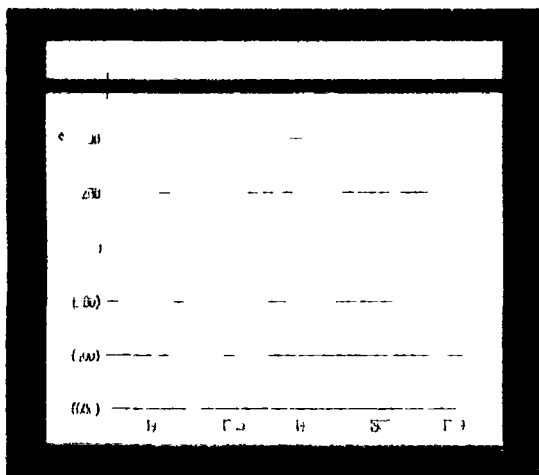
Operating Activities

Cash flows from operating activities were \$412.1 million, down \$17.4 million from that of the prior year. During 1989, Life Insurance Company of the Southwest was sold. It produced \$32.1 million cash flow from operations in 1989 compared to \$15.0 / million in 1988.

Investing Activities

Cash flow used in investing activities were \$233.7 million, down \$335.9 million from that of the prior year.

Acquisitions of property, plant and equipment totalled \$202.4 million in 1989, \$168.9 million in 1988 and \$79.6 million in 1987. Funds required to complete capital expenditures in progress at yearend 1989 plus initial 1990 approved budget totalled \$391.4 million. During recent years, lower levels of business activity, primarily in the oil field services and product segment, caused the Company to



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Responsibility for Environmental Damage

The company's management has been successful in maintaining a strong position in the market, and the company's financial performance has been excellent. The company's management has been successful in maintaining a strong position in the market, and the company's financial performance has been excellent.

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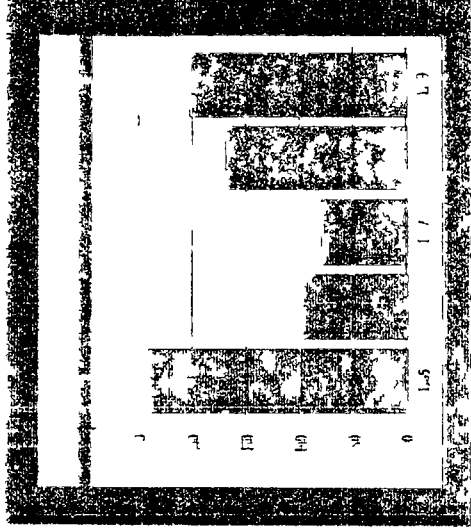
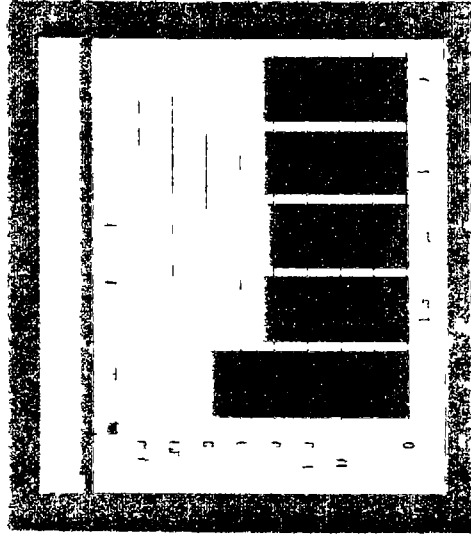
1. The first step is to identify the problem or goal. This involves understanding the current situation, identifying the key issues, and setting clear objectives.

1. The first part of the paper is devoted to the study of the asymptotic behavior of the solutions of the system (1.1) as $t \rightarrow \infty$. It is shown that the solutions of the system (1.1) are bounded and tend to zero as $t \rightarrow \infty$.

1. The first part of the paper is devoted to the study of the properties of the function $f(x)$ defined by the equation $f(x) = \sum_{n=0}^{\infty} a_n x^n$, where a_n are the coefficients of the power series.

[illegible][illegible]
$$A_0 = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}, A_1 = \begin{pmatrix} 1 & 0 \\ 0 & -1 \end{pmatrix}, A_2 = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}, A_3 = \begin{pmatrix} 1 & 0 \\ 0 & -1 \end{pmatrix}$$

(continued from page 60)

[illegible]

[illegible][illegible]

The first of these is the fact that the majority of the population of the United States is now living in urban areas. This is a result of the process of urbanization, which has been going on since the beginning of the 20th century. The second factor is the fact that the majority of the population of the United States is now living in the South and West. This is a result of the process of migration, which has been going on since the beginning of the 20th century. The third factor is the fact that the majority of the population of the United States is now living in the middle class. This is a result of the process of social mobility, which has been going on since the beginning of the 20th century.

[illegible]

1940 5 7 7

COMBINED FULLY FACTORIAL DESIGN

Factor	Level
Factor 1	Level 1
Factor 2	Level 2
Factor 3	Level 3
Factor 4	Level 4
Factor 5	Level 5
Factor 6	Level 6
Factor 7	Level 7
Factor 8	Level 8
Factor 9	Level 9
Factor 10	Level 10
Factor 11	Level 11
Factor 12	Level 12
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Factor 99	Level 99
Factor 100	Level 100

The first of these is the fact that the
 C_{60} molecule is a truncated icosahedron,
 which is a polyhedron with 32 faces, 60 vertices,
 and 90 edges. The faces are composed of 12
 pentagons and 20 hexagons. The structure
 is highly symmetric, with a point group of
 I_h . This symmetry is responsible for the
 unique electronic and structural properties
 of the molecule.

[illegible][illegible]

1. Quarterly Financial Information (Unaudited) Summarized quarterly financial information for 1987 and 1988 is as follows:

	First	Second	Third	Fourth
	(In millions except per share data)			
1989				
Revenues	\$1,196.7	\$1,371.1	\$1,468.1	\$1,625.4
Operating income	20.9	60.4	73.7	84.4
Net income	13.7*	31.4	32.4	47.5
Earnings per share	13*	29	30	45
Cash dividends paid per share	25	25	25	25
1988				
Revenues	\$1,047.1	\$1,192.0	\$1,233.9	\$1,375.3
Operating income	56.9	12.0	60.0	13.9
Net income	31.8*	24.7	23.4	11.8
Earnings per share	20	24	23	11
Cash dividends paid per share	25	25	25	25

*Includes \$1.3 million (1 cent per share) attributable to a change in accounting method (See Note 5)

*Includes \$2.0 million (8 cents per share) attributable to a change in accounting method (See Note 5)

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Management and Corporate Information

Board of Directors

Anne L. Armstrong (1977)

Chairman of the President's Foreign Intelligence Advisory Board Chairman of the Board of Trustees, Center for Strategic and International Studies director of several corporations former Ambassador to Great Britain
Armstrong Texas

T. Louis Austin Jr. (1984)

Chairman of the Board and Chief Executive Officer Brown & Root Inc
Houston Texas

Robert W. Campbell (1989)

Chairman of the Board (Retired) Canadian Pacific Limited
Calgary Alberta Canada

The Rt. Hon. Lord Clitheroe* (1987)

Deputy Chief Executive (Retired), The RTZ Corporation PLC
London England

Edwin L. Cox (1979)

Chairman Cox Oil and Gas Inc
Dallas, Texas

Robert L. Crandall (1986)

Chairman and President AMR Corporation/American Airlines, Inc
Dallas/Fort Worth International Airport Texas

Thomas H. Cruikshank (1977)

Chairman of the Board and Chief Executive Officer
Halliburton Company
Dallas, Texas

James W. Glanville (1977)

General Partner Lazard Freres & Company
New York New York

Dale P. Jones (1988)

President Halliburton Company
Dallas, Texas

Guy T. McBride Jr. (1972)

President Emeritus Colorado School of Mines
Golden Colorado

F. James McDonald (1987)

President and Chief Operating Officer (Retired) General Motors Corporation
Bloomfield Hills Michigan

E. L. Williamson (1981)

Chairman of the Board and Chief Executive Officer (Retired) The Louisiana Land and Exploration Company
New Orleans Louisiana

Executive Committee

T. Louis Austin Jr.

Chairman of the Board and Chief Executive Officer
Brown & Root Inc
Houston Texas

Alan A. Baker

President Oil Field Services Group Halliburton Company
Dallas, Texas

Lester L. Coleman

Executive Vice President Finance and Corporate Development
Halliburton Company
Dallas, Texas

Thomas H. Cruikshank

Chairman of the Board and Chief Executive Officer
Halliburton Company
Dallas, Texas

James A. Dunlop

President Halliburton Logging Services, Inc
Houston Texas

Dale P. Jones

President Halliburton Company
Dallas Texas

W. Bernard Pieper

President and Chief Operating Officer Brown & Root Inc
Houston Texas

Purvis J. Thrash

President Otis Engineering Corporation
Dallas, Texas

Corporate Officers

Halliburton Company
Dallas Texas

Thomas H. Cruikshank Chairman of the Board and
Chief Executive Officer

Dale P. Jones President

Lester L. Coleman Executive Vice President Finance and
Corporate Development

Jerry H. Blurton Vice President and Controller

C. Robert Fielder Vice President and Treasurer

St. John S. Keith Vice President and Corporate Secretary

Robert M. Kennedy Vice President Legal

Guy T. Marcus Vice President Investor Relations

Jack R. Skinner Vice President Taxes

Karen S. Stuart Vice President Administration

Oil Field Services Group

Halliburton Oil Field Services Group

Executive Offices
3600 Lincoln Plaza
500 North Akard Street
Dallas, Texas 75201 3391
(214) 978 7600

Alan A. Baker President

Jimmy C. Cooper Vice President Finance

Halliburton Services Division

Executive Offices
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Suite 7000
Houston Texas 77056
(713) 840-2700

Kenneth R. Lesuer President

John G. Cook Senior Vice President Domestic Operations

Len F. Maier Vice President International Operations

Otis Engineering Corporation

7601 Beltline Road
Carrollton Texas 75006
(214) 418 3000

Purvis J. Thrash President

Jerry B. Davis Executive Vice President

Halliburton Logging Services

7135 Highway 6 South
Houston Texas 77 42
(713) 496 8100

James A. Dunlop President

William D. M. Smith Senior Vice President Field Operations

Halliburton Geophysical Services Inc

6909 Southwest Freeway
Houston Texas 77074
(713) 774 7561

Don B. Sheffield President

Gerald M. Gilbert Vice President Operations

Halliburton Reservoir Services

5950 North Course Drive
Houston Texas 77077
(713) 561 1450

Walter E. Bliss President

Halliburton Resource Management Division

1575 Elm Street
Suite 900
Dallas Texas 75 01
(214) 951 6100

James M. Kilpatrick President

Sierra Geophysics Inc

11755 Kirkland Way
Suite 300
Kirkland Washington 98033
(206) 8 5 00

Robert S. Hart President

Halliburton Geodata Ltd

Howe Moss Drive
Kirkhill Industrial Estate
Dyce Aberdeen
AB 0G1 Scotland
(01463) 0 355

Anthony F. Armistead Managing Director

Jet Research Center

8001 South Loop
Alhambra Texas 76001 9 5
(817) 93 5111

Joseph E. Eggleston President

Member of the Compensation and Audit Committees
Date indicates year of election to the Board of Directors

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Br n R t m

Br wn & R t Braun

Br 111 & R 111 Marine

Brown & Root Civil

Br van & Re i F re i f r duct

Bryan & Root Industrial Service, Inc.

Mr van der Riet Power

Brown & Root Service Corporation

Brown & Root Manufacturing and Process Industries

MS Corp. v. M. B.

Charles F. Jones, Clifford A. Lerman and Charles F. H. Colclough

Halliburton Environmental Technology Inc.

H u k u T v a s

Highlands Insurance Company

Health Economics Corporation

Campus Office

Shares Listed

Transfer Agents and Registrars

First Chicago Trust Company of New York

Entril (urine) Trust Company

Form 10 k Report

Vice President Investor Relations

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Halliburton Company
SERVING THE ENERGY INDUSTRIES WORLDWIDE

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